

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A ~~wireless~~ communications network, comprising:

~~a wired network;~~

a wireless link of the network ~~channel~~;

a server computer connected to the wireless link ~~wired network~~;

~~a wireless packetized data communications provider equipment connected to the
wired network;~~

a first client device communicatively connected via the wireless link ~~channel~~ to
the server computer ~~wireless packetized data communications provider~~, the first client
device having a first location;

a second client device communicatively connected to the server computer
~~network~~, the second client device having a second location;

a first identifier ascertainable to the server computer corresponding to the first
location;

a second identifier ascertainable to the server computer corresponding to the
second location;

wherein the server computer selectively, based on the first location and the second
location, intermediates communications between the first client device at the first location
over the wireless link and the second client device at the second location ~~makes
communicably accessible on the network of each of: (a) by the second client device, the
first client device and the first identifier corresponding to the first location and (b) by the~~



~~first client device, the second client device and the second identifier corresponding to the second location.~~

Claim 2 (currently amended): The ~~wireless~~ communications network of claim 1, further comprising a detector connected to the first client device, for determining the first location of the first client device.

Claim 3 (currently amended): The ~~wireless~~ communications network of claim 2, wherein the detector is selected from the group consisting of: a software of the server computer, a hardware of the server computer, a software of the first client device, a hardware of the first client device, ~~a software of the wireless packetized data communications provider equipment, a hardware of the wireless packetized data communications provider equipment,~~ and a combination of any of these.

Claim 4 (currently amended): The ~~wireless~~ communications network of claim 3, wherein the first client device communicates the first identifier to the server computer over the wireless link, further comprising:

a relator, operable in conjunction with receipt of the first identifier by the server computer, for correlating the first identifier particularly to the first client device, ~~in form ascertainable by the second client device via communications of the second client device~~ with for selecting whether the server computer will intermediate communications between the first device and the second device, to enable communications between the first device at the first location communicatively connected over the wireless link to the

server computer and the second device at the second location communicatively connected to the server computer.

Claim 5 (currently amended): The ~~wireless~~ communications network of claim 2, wherein the ~~wired~~ network is the Internet.

Claim 6 (currently amended): The ~~wireless~~ communications network of claim 1, wherein the wireless link ~~channel~~ is a cellular packetized data system.

Claim 7 (currently amended): The ~~wireless~~ communications network of claim 1, wherein the wireless link ~~channel~~ is a CDPD system.

Claim 8 (currently amended): The ~~wireless~~ communications network of claim 1, further comprising a database communicably connected to the server computer, for relating the first location to the first client device and the second location to the second client device and for determining whether to intermediate communications, via the server computer, between the first client device at the first location over the wireless link and the second client device at the second location making communicably accessible via the server computer over the network, each of (a) to the second client device, the first client device and the first identifier corresponding to the first location and (b) to the first client device, the second client device and the second identifier corresponding to the second location.

Claim 9 (currently amended): A method of wireless communications, wherein a first

client device has a first location and a second client device has a second location, comprising the steps of:

deriving a first information relational to the first location and the first client device, if the first client device is communicably connected to a communications network logical switch;

deriving a second information relational to the second location and the second client device, if the second client device is communicably connected to the communications network logical switch;

~~enabling~~ intermediating communications, by virtue of the first information and the second information, between the first client device ~~to communicate~~, at least in part wirelessly, ~~with~~ and the second client device, ~~based on favorable recognition by~~ if the communications network logical switch favorably recognizes ~~of~~ the first information and the first client device, on the one hand, and the second information and the second client device, on the other hand.

Claim 10 (currently amended): The method of claim 9, wherein the step of deriving a first information comprises the steps of:

obtaining the first information by the communications network logical switch; and
storing the first information to control the communications network logical switch;

wherein the step of deriving a second information comprises the steps of:

obtaining the second information by the communications network logical switch;
and

storing the second information to control the communications network logical switch; and

wherein the step of intermediating communications ~~enabling~~ is performed ~~at least in part~~ by the communications network logical switch and comprises the steps of:

performing a look-up in a relational database for the first client device and the first information, on the one hand, and the second client device and the second information, on the other hand; and

enabling communications between ~~making known the look-up result to at least one of the first client device and the second client device,~~ if the step of performing a look-up so dictates.

Claim 11 (cancelled).

Claim 12 (currently amended): A computer readable substrate having a computer program saved thereupon, the computer program comprising the steps of:

relating a first location to a first client device communicably connected to a network by a wireless link;

relating a second location to a second client device communicably connected to the network;

ascertaining whether messaging communication between the first client device and the second client device is permitted, based on a state of the steps of relating; and

intermediating ~~enabling~~ messaging communication over the network between the first client device at the first location over the wireless link and the second client device

at the second location if ~~because of the steps of relating~~ the step of ascertaining so dictates.

Claim 13 (withdrawn): A co-processor for use with a computing device,
comprising:

 a digital signal processor;

 a connector for communicatively connecting the co-processor with the computing device; and

 a program of the digital signal processor for performing an optimized wireless communication.

Claim 14 (withdrawn): The co-processor of claim 13, wherein:

 the computing device includes a plug-in socket; and

 the connector is a plug compatible with a plug-in socket of the computing device.

Claim 15 (withdrawn): The co-processor of claim 13, further comprising:

 a wireless communications modem; and

 wherein the digital signal processor is embedded in the wireless communications modem connectible to the connector.

Claim 16 (withdrawn): The co-processor of claim 13, further comprising:

 a communications bus of the computing device; and

wherein the plug-in socket of the computing device connects to the bus, so that the co-processor can communicate with the communications bus through the plug-in socket.

Claim 17 (withdrawn): The co-processor of claim 13, wherein the co-processor performs an operation selected from the group consisting of: encryption, decryption, communications, protocol handling, and location positioning.

Claim 18 (withdrawn): The co-processor of claim 13, wherein the co-processor enables communications over a wireless channel, further comprising:
a standard communications protocol for communicating between the co-processor and the computing device;
a specialized communications protocol for communicating between the co-processor over the wireless channel; and
wherein the co-processor includes an interface between a standard communications protocol and a specialized communications protocol.

Claim 19 (withdrawn): A method of operation of a co-processor, the co-processor being connected to a computing device and the co-processor including a digital signal processor, comprising the steps of:
receiving a communication formatted according to a specialized communications protocol; and

processing the communication and formatting the communication according to a standard communications protocol.

Claim 20 (withdrawn): The method of claim 19, wherein the communication is received by the co-processor from a wireless channel.

Claim 21 (withdrawn): The method of claim 20, wherein the co-processor communicates the communication in the standard communications format to the computing device.

Claim 22 (withdrawn): The method of claim 19, further comprising the steps of:
sending a communication formatted according to a specialized communications protocol; and
processing the communication formatted as a standard communications protocol to format the communication according the specialized communications protocol, prior to the step of sending.

Claim 23 (withdrawn): The method of claim 22, wherein the co-processor communicates with the computing device according to the standard communications protocol and communicates over a wireless channel according the specialized communications protocol.

Claim 24 (withdrawn): The method of claim 23, wherein the standard communications protocol is TCP/IP.

Claim 25 (withdrawn): The method of claim 23, wherein the specialized communications protocol is an optimized protocol for communicating over the wireless channel and conforms to the OSI reference model.

Claim 26 (withdrawn): The method of claim 25, wherein the method is performed by an embedded system within a wireless modem of the computing device.

Claim 27 (withdrawn): A method of communicating different data types over a wireless channel, comprising the steps of:

- receiving data files of different data types;
- parsing the data files to determine the respective data types;
- prioritizing the data files according to a prioritization scheme for the different data types.

Claim 28 (withdrawn): The method of claim 27, further comprising the step of:

- transmitting the data files in accordance with the prioritization of the prioritization scheme.

Claim 29 (withdrawn): The method of claim 28, wherein the step of receiving is performed by a computer.

Claim 30 (withdrawn): The method of claim 28, wherein the step of transmitting is performed by a computer.

Claim 31 (withdrawn): The method of claim 30, wherein a wireless channel is employed in the step selected from the group consisting of: transmitting, receiving, and both transmitting and receiving.

Claim 32 (withdrawn): The method of claim 31, wherein the computing device is a wireless ASP server computer.

Claim 33 (withdrawn): The method of claim 32, wherein the wireless ASP server computer communicates over the wireless channel with a client device.

Claim 34 (withdrawn): The method of claim 33, wherein the client device also communicates with the wireless ASP server computer over the wireless channel and performs the steps of:

receiving data files of different data types;

parsing the data files to determine the respective data types;

prioritizing the data files according to a prioritization scheme for the different data types; and

transmitting the data files in accordance with the prioritization of the prioritization scheme.

Claim 35 (withdrawn): The method of claim 34, wherein the different data types include data types selected from the group consisting of: text data, gif, jpg, html, and xml.

Claim 36 (withdrawn): A method of operation of a wireless ASP server computer, comprising the steps of:

 receiving communications over a wireless channel, the communications comprised of more than one data type;

 parsing the more than one data type;

 prioritizing the more than one data type; and

 processing the more than one data type according to a select prioritization scheme for the more than one data type.

Claim 37 (withdrawn): The method of claim 36, wherein the step of processing includes transmitting the more than one data type in sequence according to the select prioritization scheme.

Claim 38 (withdrawn): The method of claim 36, wherein the step of processing also includes other processing steps peculiar to the more than one data type.

Claim 39 (withdrawn): The method of claim 37, wherein the other processing steps are selected from the group consisting of: discarding at least one of the more than one data type, sequential ordering of the more than one data type, and on the fly prioritization according to then-existing conditions and constraints of the wireless channel.

Claim 40 (withdrawn): The method of claim 36, wherein the steps of receiving and transmitting are each performed with the more than one data type as pursuant to a specialized communications protocol for the wireless channel.

Claim 41 (withdrawn): The method of claim 38, wherein the specialized communications protocol is based on an OSI reference model.

Claim 42 (withdrawn): A communications device, comprising:
a protocol dictionary.

Claim 43 (withdrawn): The device of claim 42, wherein the protocol dictionary includes a relational database.

Claim 44 (withdrawn): The device of claim 43, wherein the relational database maintains data relevant to a specialized wireless communications protocol.

Claim 45 (withdrawn): The device of claim 44, wherein the data maintained by the relational database is selected from the group consisting of: commands, instructions, and other information.

Claim 46 (withdrawn): The device of claim 44, further comprising:
a wireless communications channel;

a server device communicatively connected with the device over the wireless channel; and

wherein the device is a client device that communicates over the wireless channel with the server device.

Claim 47 (withdrawn): The device of claim 44, further comprising:

a wireless communications channel;

a client device communicatively connected with the device over the wireless channel; and

wherein the device is a server device that communicates over the wireless channel with the client device.

Claim 48 (withdrawn): The device of claim 47, wherein the relational database of the protocol dictionary maintains the same data on the client device and the server device.

Claim 49 (withdrawn): The device of claim 47, further comprising:

a synchronizer for syncing the data of the protocol dictionary of the server device with the data of the protocol dictionary of the client device.

Claim 50 (withdrawn): The device of claim 49, wherein the device acts as a master to the client device, with respect to synchronization.

Claim 51 (withdrawn): The device of claim 49, wherein the device acts as a slave to client device, with respect to synchronization.

Claim 52 (withdrawn): The device of claim 43, further comprising:
a dynamic protocol dictionary generator.

Claim 53 (withdrawn): The device of claim 52, further comprising:
a wireless communications channel communicatively connected to the device;
and
wherein the dynamic protocol dictionary generator processes, in real time, in order to derive a dictionary element for the relational database, a data selected from the group consisting of: user specified dictionary element, algorithmically derived dictionary element based on repeatedly communicated data, and by algorithmically derived dictionary element based on at least one state of the wireless communications channel.

Claim 54 (withdrawn): A method of wireless communications, comprising the steps of:
generating a protocol dictionary.

Claim 55 (withdrawn): The method of claim 54, wherein the protocol dictionary includes a relational database.

Claim 56 (withdrawn): The method of claim 55, wherein the step of generating is performed on a device capable of communications over a wireless channel.

Claim 57 (withdrawn): The method of claim 56, wherein a data maintained in the relational database is elected from the group consisting of: user-specified dictionary element, algorithmically derived dictionary element based on repeatedly communicated data, and by algorithmically derived dictionary element based on at least one state of the wireless communications channel.

Claim 58 (withdrawn): The method of claim 57, further comprising the steps of:

synchronizing the data maintained in the relational database of the dynamic protocol dictionary with a second device capable of wireless communications with the device.

synchronizing the data maintained in the relational database of the dynamic protocol dictionary with a second device capable of wireless communications with the device.

protocol dictionary with a second device capable of wireless communications with the device.

device.

Claim 59 (withdrawn): The method of claim 58, wherein the device is a server computer and the second device is a client computer, the server computer and the client computer communicatively connected over a wireless communications channel.

computer and the second device is a client computer, the server computer and the client computer communicatively connected over a wireless communications channel.

computer communicatively connected over a wireless communications channel.

Claim 60 (withdrawn): The method of claim 59, further comprising the steps of:

communicating between the server computer and the client computer over the wireless communications channel according to a specialized wireless communications protocol based on the OSI reference model.

wireless communications channel according to a specialized wireless communications protocol based on the OSI reference model.

protocol based on the OSI reference model.

Claim 61 (withdrawn): A first communications device, comprising:

a first cache file; and

a first synchronizer connected to the first cache file.

Claim 62 (withdrawn): The device of claim 61, further comprising:

a second communications device;

a data of the first cache file;

wherein the data is synchronized by the synchronizer between the first cache file and the second communications device.

Claim 63 (withdrawn): The device of claim 62, further comprising:

a second cache file;

wherein the data is synchronized by the synchronizer between the first cache file and the second cache file.

Claim 64 (withdrawn): The device of claim 63, wherein the first cache file is a memory included in the first communications device and the second cache file is a memory included in the second communications device.

Claim 65 (withdrawn): The device of claim 64, wherein the synchronizer comprises:

a wireless communicator for communicating a cache state from the first communications device to the second communications device, the second cache is

modified by the second communications device to account for the cache state and thereby synchronize the first cache and the second cache.

Claim 66 (withdrawn): The device of claim 65, wherein the wireless communicator is a wireless modem of the first communications device.

Claim 67 (withdrawn): The device of claim 66, wherein communications from the first communications device to the second communications device of the cache state are carried over the wireless communications channel.

Claim 68 (withdrawn): The device of claim 67, wherein the communications of the cache state over the wireless communications channel conform to a specialized wireless protocol conforming to an OSI reference model.

Claim 69 (withdrawn): A method of synchronizing, comprising the steps of:
 saving a cache state at a first communications device to a first cache;
 communicating the cache state by the first communications device to a second communications device; and
 saving the cache state at the second communications device to a second cache.

Claim 70 (withdrawn): The method of claim 69, wherein the step of communicating is performed according to a specialized wireless protocol communicated over a

wireless channel communicatively connected to the first communications device and the second communications device.

Claim 71 (withdrawn): The method of claim 70, wherein the specialized wireless protocol is based on an OSI reference model.

Claim 72 (withdrawn): The method of claim 70, wherein the first communications device is an ASP server computer and the second communications device is a wireless client device.

Claim 73 (new): The communications network of claim 1, further comprising:
a non-standard communications protocol for communications over the wireless link, for wireless communications between the server computer and the first client device;
wherein the server computer must intermediate the communications between the first client device and the second client device because of the non-standard communications protocol.

Claim 74 (new): The communications network of claim 1, wherein the first location and the second location, respectively, are each maintained by the server computer in confidence to the second client device and the first client device, respectively.

Claim 75 (new): The communications network of claim 74, wherein the first client device and the second client device communicate to the other the first location and the second

location, respectively, only if instructed to do so by the first client device and the second client, respectively.

Claim 76 (new): The method of claim 9, further comprising the steps of:

communicating over the wireless link, for wireless communications between the logical switch and the first client device, by a non-standard communications protocol;
intermediating communications between the first client device and the second client device by the logical switch, because of the non-standard communications protocol.

Claim 77 (new): The method of claim 9, further comprising the step of:

maintaining in confidence, by the logical switch, the first location and the second location, respectively, to the second client device and the first client device, respectively.

Claim 78 (new): The method of claim 77, further comprising the steps of:

instructing by the first client device whether to make available to the second client device at least certain of the first information;

instructing by the second client device whether to make available to the first client device at least certain of the second information;

communicating by the logical switch to the second client device and the first client device, respectively, only such of the first information and the second information, respectively, as directed in the respective steps of instructing.